

**a. Create a XMLHttpRequest with a callback function and retrieve data from a TXT file by using AJAX**

**Step-1:** Create a html page

**ex.html**

```
<!DOCTYPE html>

<html>

<head>

<title>XMLHttpRequest Example Program</title>

<script>

    function getTextFile(){

        // Creating the XMLHttpRequest object

        const xhttp = new XMLHttpRequest();

        xhttp.open("GET","txt.txt");

        xhttp.onreadystatechange = function()

        {

            // Check if the request is complete and was successful

            if(this.readyState === 4 && this.status === 200)

            {

                // Inserting the response from server into an

                HTML element

                document.getElementById("disp").innerHTML =

                this.responseText;

            }

        }

    }

}
```

```
    }};

    xhttp.send(); // Sending the request to the server

}

</script>

</head>

<body>

    <h1>The XMLHttpRequest Object</h1>

    <p>Create a XMLHttpRequest with a callback function and
    retrieve data from a TXT file by using AJAX.</p>

    <button onclick="getTextFile()">Click Here to Get the Data From
    Text File</button>

    <p id="disp"></p>

</body>

</html>
```

**Step-2** : Create data.txt file with some data in it.

**Step-3** : To run, this file create a .war file using the following command

**\$ jar cvf 574.war .**

```

Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\IPC>D:
D:\>cd 574
D:\574>jar cvf 574.war .
added manifest
adding: data.txt(in = 15) (out= 17)(deflated -13%)
adding: ex.html(in = 649) (out= 395)(deflated 39%)
D:\574>dir
Volume in drive D has no label.
Volume Serial Number is A026-FE04

Directory of D:\574

01-02-2023 12:28 <DIR>          .
01-02-2023 12:28 <DIR>          ..
01-02-2023 12:29                967 574.war
01-02-2023 11:57                15 data.txt
01-02-2023 11:57                649 ex.html
               3 File(s)      3,433 Bytes
               2 Dir(s)  339,822,284,800 bytes free

D:\574>

```

**Step-4:** Choose war file and deploy

The screenshot shows the Tomcat Manager web interface. The 'Applications' table lists several deployed applications, including 'Welcome to Tomcat', 'Tomcat Documentation', and 'Tomcat Manager Application'. The 'Deploy' section at the bottom provides fields for 'Context Path (required)', 'XML Configuration file URL', and 'WAR or Directory URL', along with a 'Deploy' button.

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/2b	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/574	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

**Deploy**  
Deploy directory or WAR file located on server

Context Path (required):

XML Configuration file URL:

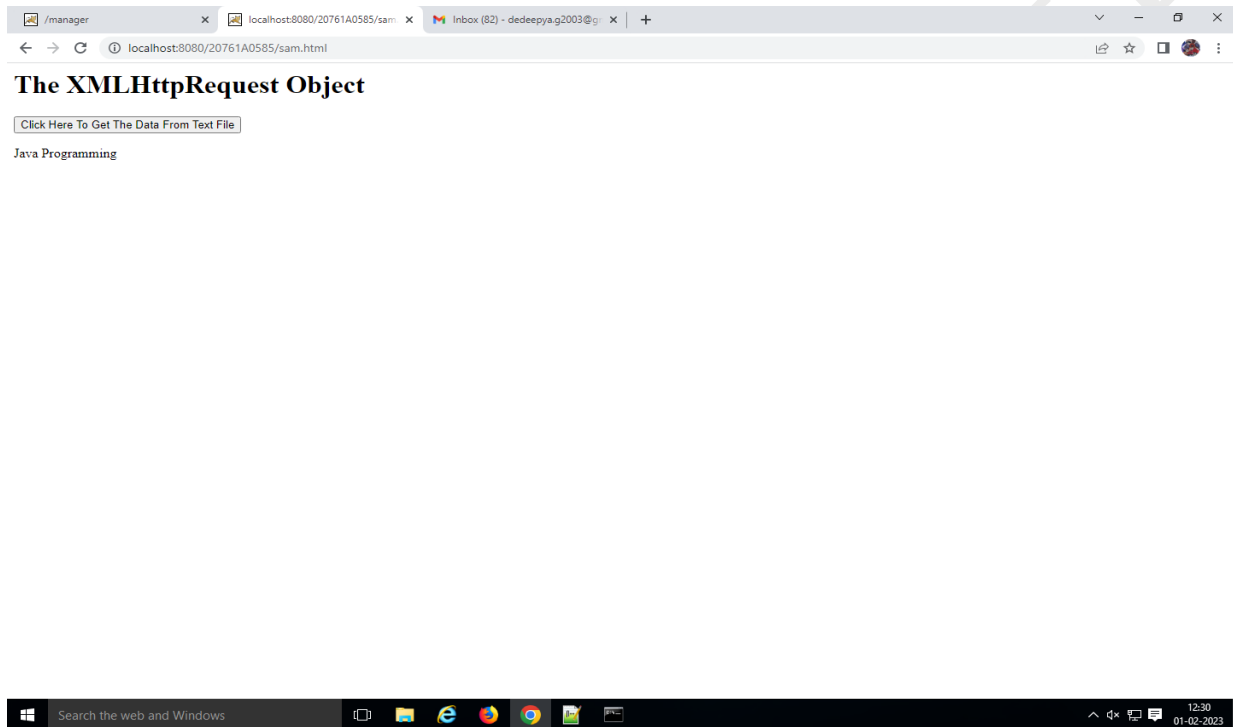
WAR or Directory URL:

**WAR file to deploy**

**Step-5:**Execute the html files

<http://172.16.10.31:8080/574/ex.html>

**Output:**



**b) Create an XMLHttpRequest to retrieve data from an XML file and display the data in an HTML table by using AJAX.**

**Steps:**

**1.Create an xml file**

```
<bookstore>

    <book category="Programming">

        <title>Java Programming</title>

        <author>James Gosling</author>

        <year>1990</year>

        <price>$25</price>

    </book>

    <book category="DateBase">

        <title>DateBase Management System</title>

        <author>Elmasri</author>

        <year>2002</year>

        <price>$35</price>

    </book>

</bookstore>
```

## 2.Create a html file

### ex1.html

```
<!DOCTYPE html>

<html>

<head>

    <title>2B Program</title>

<script>

    function loadDoc() {

        // Creating the XMLHttpRequest object

        const xhttp = new XMLHttpRequest();

        xhttp.onreadystatechange = function () {

            // Check if the request is complete and was successful

            if (this.readyState === 4 && this.status === 200) {

                myFunction(this);

            }

        };

        xhttp.open("GET", "web.xml", true);

        xhttp.send(); // Sending the request to the server

    }

    function myFunction(xml) {

        var xmlDoc = xml.responseXML;

        var x = xmlDoc.getElementsByTagName("title");
```

```
var y = xmlDoc.getElementsByTagName("author");
var z = xmlDoc.getElementsByTagName("year");
var u = xmlDoc.getElementsByTagName("price");
var i = 0;
var len = x.length;
document.write("<center><h2>Books Details</h2></center><br>");
document.write("<center>");
document.write("<table border=1 width=70% text-align= center;>");
document.write("<tr bgcolor =#5D7B9D >");
document.write("<th >Book  
Name</th><th >Author</th><th>Year</th><th  
>price</th>")
document.write("</tr>");
for (i; i < len; i++) {
document.write("<tr>");
document.write("<td>" + x[i].childNodes[0].nodeValue + "</td>");
document.write("<td>" + y[i].childNodes[0].nodeValue + "</td>");
document.write("<td>" + z[i].childNodes[0].nodeValue + "</td>");
document.write("<td>" + u[i].childNodes[0].nodeValue + "</td>");
document.write("</tr>");
}
document.write("</table>");
document.write("</center>"); document.write("<style>");
document.write("table,td,th{ border: 1px solid;padding:20px }");
```

```
document.write("table{ text-align:center; }"); document.write("</style>");

}

</script>

</head>

<body>

    <h1>The XMLHttpRequest Object of Books Details</h1>

    <p> Create an XMLHttpRequest to retrieve data from an XML file and
    display the data in an HTML

    table by using AJAX

    </p>

    <button onclick="loadDoc()">Click Here to Get the Data From XML
    File</button>

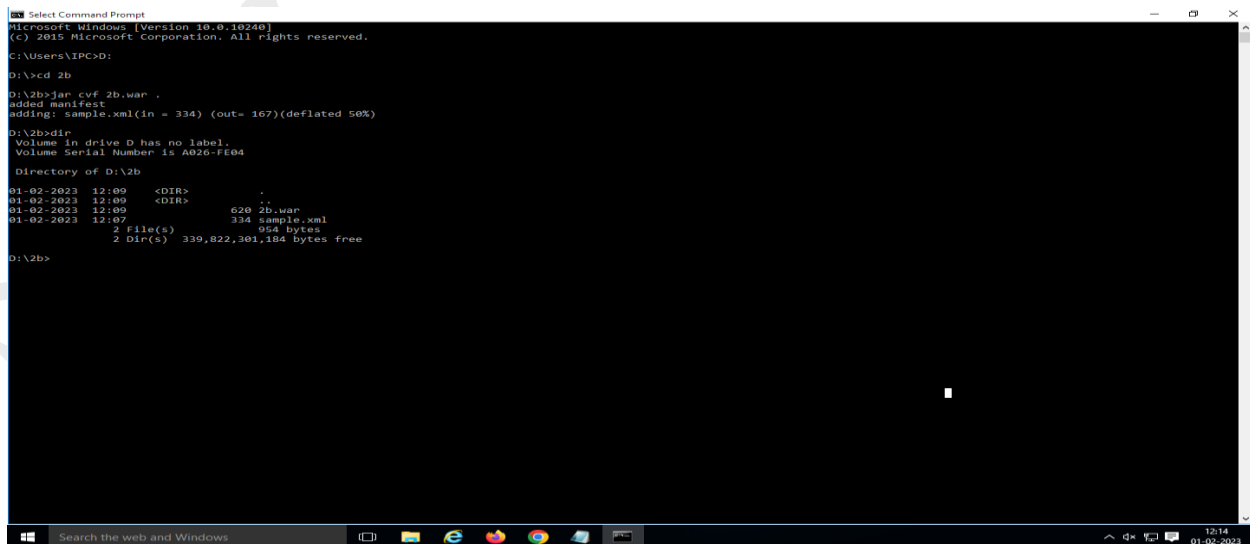
    <p id="disp"></p>

</body>

</html>
```

### 3.Create .war file

--> **jar cvf 2b.war .**



```
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\VIP>D:
D:\>cd 2b
D:\2b>jar cvf 2b.war .
added manifest
adding: sample.xml(in = 334) (out= 167)(deflated 50%)
D:\2b>dir
Volume in drive D has no label.
Volume Serial Number is A026-FE04

Directory of D:\2b

01-02-2023 12:09 <DIR>          .
01-02-2023 12:09 <DIR>          ..
01-02-2023 12:09             620 2b.war
01-02-2023 12:07             334 sample.xml
                2 File(s)          954 bytes
                2 Dir(s) 339,822,301,184 bytes free

D:\2b>
```



## 4.Choose war file and deploy it

The screenshot shows the Tomcat Manager web interface. The top navigation bar includes links for List Applications, HTML Manager Help, Manager Help, and Server Status. The main content area displays a table of applications and a deployment section.

Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/2b	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Below the table is the **Deploy** section, which includes a form for deploying a WAR file or directory. The form has fields for Context Path (required), XML Configuration file URL, and WAR or Directory URL, along with a Deploy button. Below this is a section for selecting a WAR file to upload, with a Choose File button and a Deploy button.

## 5:Execute the html files

<http://172.16.10.31:8080/2b/ex1.html>

**Output:**

### The XMLHttpRequest Object of Books Details

Create an XMLHttpRequest to retrieve data from an XML file and display the data in an HTML table by using AJAX

[Click Here to Get the Data From XML File](#)

**Books Details**

Book Name	Author	Year	price
Java Programming	James Gosling	1990	\$25
DateBase Management System	Elmasri	2002	\$35